Introduction

Socio-economic position has a clear impact on developing self-esteem, especially during the important stage of adolescence. At this period of life, the self-esteem of young people undergoes important changes, influenced not only by already-mentioned socio-economic status, but also by variety of other intrapersonal, interpersonal and socio-cultural determinants. Adolescence, the period of transition from childhood to adulthood, is a critical time for the development of lifelong perceptions, beliefs, values and experiences, as well as mental health subscales and social support from family and significant others to be associated with self-esteem. Results indicate that personality dimensions and mental health subscales contribute to the association between family affluence and self-esteem. Conclusion: The contribution of personality and mental problems in the relation between socio-economic status and self-esteem may have important implications for the design of promotional programs aimed at enhancing self-esteem.

Keywords: adolescence, mental health, personality, self-esteem, socio-economic status

Socio-economic differences in self-esteem of adolescents influenced by personality, mental health and social support

Zuzana Veselska1,2, Andrea Madarasova Geckova1,2, Beata Gajdosova3, Olga Orosova3, Jitse P. van Dijk1,4, Sijmen A. Reijneveld4

Background: Previous studies indicate that self-esteem is lower among adolescents of low socio-economic status and is associated with a number of intrapersonal, interpersonal and socio-cultural factors. Evidence on the mechanisms by which these factors contribute to the connection between socio-economic status and developing self-esteem is incomplete, however. The purpose of this cross-sectional study is to assess whether personality, mental health and social support contribute to the relationship between socio-economic status and self-esteem. Methods: A sample of 3694 elementary-school students from Slovakia (mean age = 14.3 years, 49% boys) filled out the Rosenberg Self-esteem Scale, the Family Affluence Scale, the Ten-Item Personality Inventory, the 12-item General Health Questionnaire and the Perceived Social Support Scale. Results: Hierarchical linear regression showed family affluence, personality dimensions of extroversion, emotional stability and openness to experience, as well as mental health subscales and social support from family and significant others to be associated with self-esteem. Results indicate that personality dimensions and mental health subscales contribute to the association between family affluence and self-esteem. Conclusion: The contribution of personality and mental problems in the relation between socio-economic status and self-esteem may have important implications for the design of promotional programs aimed at enhancing self-esteem.

Keywords: adolescence, mental health, personality, self-esteem, socio-economic status

1 Kosice Institute for Society and Health, PJ Safarik University, Kosice, Slovak Republic
2 Institute of Public Health, Medical Faculty, PJ Safarik University, Kosice, Slovakia
3 Department of Educational Psychology and Health Psychology, Faculty of Arts, PJ Safarik University, Kosice, Slovak Republic
4 Department of Social Medicine, University Medical Center Groningen, University of Groningen, The Netherlands

Correspondence: Zuzana Veselska, Institute of Public Health, Medical Faculty, PJ Safarik University, Tr. SNP 1, 040 66 Kosice, Slovakia, tel: +421 55 234 33 93, e-mail: zuzana.veselska@upjs.sk

Influence-Self-Efficacy (ASE) model, the Theory of Triadic Influence (TTI) and the Precede-Proceed model. Based on the review by Mann et al., self-efficacy in behavioural domains, according to the TBP, influences self-esteem or the evaluation of self-worth. At the same time, according to other models such as the ASE or TTI, self-esteem could be considered as a distal factor influencing self-efficacy in specific behavioural domains. In addition, to be able to change the consequences of self-esteem on future health and health-related behaviour, it is important to be aware of possible correlates and associations of low or high self-esteem which are crucial during the developmental stage of adolescence. According to Harter’s, the development and maintenance of self-esteem in childhood and adolescence is influenced by two important factors: perceived competence in areas of importance and the experience of social support. Considering other factors, correlates of self-esteem can be divided into several essential domains: (i) gender, (ii) socio-economic factors, (iii) personality factors and mental health; and (iv) factors from family, friends and significant others. It is also necessary to mention that in the past, researchers only investigated levels of explicit self-esteem. However, in recent decades other aspects of self-esteem have been discovered and explored, such as implicit self-esteem, contingent self-esteem and self-esteem stability.

Gender has been reported to have an influence on developing self-esteem during adolescence. Boys are more likely to have high self-esteem at this stage of life than girls. Gender differences have also been reported in age-related changes. Self-esteem among boys tends to increase, while self-esteem among girls tends to decrease a little during early adolescence. Previous studies also show socio-economic status to be significantly related to self-esteem. In general, those with higher socio-economic status report higher self-esteem than those with lower socio-economic status.
self-esteem has been related to eating disorders and between self-esteem and anxiety. This relationship is currently being debated by researchers. Some authors argue that low self-esteem is related to aggression, whereas others indicate that high self-esteem is linked to aggression. Surprisingly, less attention has been paid to the connection between personality dimensions and self-esteem itself, though it could be hypothesized that consistent personality traits might influence the way people perceive and evaluate themselves.

Family, peers and significant others play a major role in the development of an adolescent's self-esteem. The family in particular, as the primary environment at this period of life, provides an important background for developing and creating the initial sense of oneself. Previous studies have found a positive relationship between supporting family relationships and self-esteem. On the other hand, a lack of support or a dysfunctional family environment has been described as a contributor to maladjustment, behavioural problems and drug abuse. In addition, support from peer groups and significant others, like teachers, could positively or negatively influence the development of one's self-esteem. The question remains regarding how social support from family, friends and significant others contribute along with other self-esteem factors (e.g. personality, mental health) to the association between socio-economic status and self-esteem.

Factors such as gender, socio-economic status, personality and mental health and support from family and other relationships are all suggested as important influences in the field of the developing self-esteem during the adolescence, ultimately affecting outcomes in the area of mental health and health behaviour. Understanding the associations between self-esteem and its correlates could bring new ideas to the role of self-esteem in the framework of health promotion among young people. Socio-economic status is less strongly associated with self-esteem in comparison to personality dimensions and mental health constructs, which are very similar and strongly associated. Social support from family, friends and significant others could be seen again as conceptually more distinct in relation to self-esteem.

Therefore, based on the theoretical and empirical findings, the main aim of this study is to assess whether personality, mental health and social support contribute to the relationship between socio-economic status and self-esteem. We will explore these variables and their associations with self-esteem. We assume that (i) socio-economic status, personality, mental health and social support will be significantly associated with self-esteem; (ii) socio-economic status will be less strongly related to self-esteem in the model, and the explanatory power will decrease after adding personality dimensions, mental health and social support subscales; and (iii) personality dimensions and mental health subscales, as similar constructs, will be strongly related to self-esteem and have a greater explanatory power.

**Methods**

**Sample and procedure**

The study sample consisted of 3725 adolescents in the eighth and ninth grades of elementary schools in the major cities of Bratislava (approximately 425 000 inhabitants, Western Slovakia), Zilina (approximately 157 000 inhabitants, Northern Slovakia), Kosice (approximately 240 000 inhabitants, Eastern Slovakia) and other smaller cities (approximately 20 000–40 000 inhabitants) in the eastern region of Slovakia, representing different parts of the country. The study sample was fairly evenly divided by gender (49% boys, 51% girls) and ranged in age from 11 to 17 years (mean age = 14.3 years, SD = 0.65). We decided to exclude students under 13 and over 16 years of age to make the sample more homogeneous and to avoid the influence of age extremes. After this step, the study sample consisted of 3694 students (mean age = 14.3 years, SD = 0.62). Of the sample, 24.6% came from Bratislava, 21.3% from Zilina, 32.1% from Kosice and 22% from other eastern region cities.

Trained researchers and research assistants collected the data between October and December 2006. The set of questionnaires was administered during two regular 45-min lessons in a complete 90-min period of time on a voluntary and anonymous basis in the absence of teachers. An overall response rate of 93.5% was achieved. Non-response was due to illness or other types of school absence. The local Ethics Committee approved the study.

**Measures**

Self-esteem was assessed with the Rosenberg Self-Esteem Scale (RSES). The 10 items of the RSES assess a person's overall evaluation of his/her worthiness as a human being. Responses range on a 4-point scale from 1 (strongly disagree) to 4 (strongly agree). Global self-esteem factor can then be calculated, with the sum score ranging from 10 to 40. A higher score indicates higher self-esteem. Cronbach's alpha for global self-esteem was 0.76.

Socio-economic status was measured by the Family Affluence Scale (FAS), which was developed for the Health Behaviour in School-aged Children (HBSC) surveys as a measure of family wealth. It comprises four items about family car ownership, bedroom occupancy, computer ownership and family holidays. The composite FAS score (ranging from 0 to 7) was calculated, with a higher score indicating higher family affluence. Cronbach's alpha was 0.60.

Psychological well-being was measured using the Ten-Item Personality Inventory (TIPI), which is a very brief measure of the Big-Five personality domains, with only 10 items being assessed. Each item consists of two descriptors, separated by a comma, using the common stem 'I see myself as': (e.g. 'I see myself as: extroverted, enthusiastic'). Five dimensions were calculated within this scale, with the higher score indicating a higher level of each dimension: extroversion (2 items), agreeableness (2 items), emotional stability (2 items), conscientiousness (2 items) and openness to experience (2 items). Responses range on a 7-point scale from 1 (strongly disagree) to 7 (strongly agree), with the sum score ranging from 2 to 14 for each subscale. Correlations between subscales were significant and are presented in table 2. The strongest correlations are between extroversion and openness to experience (0.31) and between emotional stability and agreeableness (0.27).

Psychological well-being was measured using the 12-item General Health Questionnaire (GHQ-12), with a higher score indicating worse psychological well-being. With this scale, 2 factors could be computed: depression/anxiety (6 items) and social dysfunction (6 items). Responses range on a 4-point scale from 1 to 4, with the sum score ranging from 6 to 24 for each factor. Cronbach's alpha was 0.82 for the depression/anxiety subscale and 0.65 for social dysfunction. Correlation between the subscales is 0.53 (table 2).

Support from family, friends and significant others was measured using the Perceived Social Support Scale (PSSS),...
with a higher score indicating higher social support. With this scale, consisting of 12 items, 3 possible subscales could be calculated: perceived support from family (4 items), perceived support from friends (4 items) and perceived support from significant others (4 items), with the sum score ranging from 4 to 28 for each subscale. Responses range on a 7-point scale from 1 (strongly disagree) to 7 (strongly agree).36–38 Cronbach’s alphas for the perceived support from family, friends and significant others subscales were 0.91, 0.91 and 0.85, respectively. Correlations between the subscales are rather strong (0.59, 0.67, 0.78) and are presented in Table 2.

### Statistical procedure and analysis

Standard descriptive analyses (mean, standard deviation and range of sum score) were performed in the first step. All the scales used in this study were also checked for their distributional properties, and normal distributions were found. Next, we explored the correlations between all the variables. Finally, linear regression was used to analyze the data and to explore associations between self-esteem and other variables, with self-esteem as the dependent variable, adjusted for gender. We did this in both a bivariate and multivariate way. In the multiple regression the variables were entered hierarchically in the following order: Model 0 gender; Model 1 family affluence; in Model 2 the TIPI subscales were added; in Model 3 the GHQ-12 subscales were added and in Model 4 the PSSS subscales were added. The present study focused on the association between socio-economic status and self-esteem and on the other factors (e.g. personality, mental health, social support) contributing to this association. Therefore family affluence as an indicator of socio-economic status was added in Model 1. Variables were then added in an order from the proximal to the distal factors in three additional steps (Model 2 to 4): that is, starting with personality as the most proximal factor, via mental health, to social support as the most distal factor. We also explored in an additional analysis whether the associations of personality, mental health with global self-esteem were moderated by gender; Model 1 family affluence; in Model 2 the TIPI subscales were added and in Model 3 the GHQ-12 subscales were added and in Model 4 the PSSS subscales were added. The standardized β coefficient for family income decreased in subsequent models, which may, along with the variables added, be mediators in a causal chain. Similarly, the explained variance increased both after adding personality dimensions and after the additional inclusion of depression/anxiety and social dysfunction. Adding social support (Model 4) hardly affected other betas and explained the variance.

Table 3 shows the results of hierarchical regression analysis for global self-esteem, adjusted for gender, with 4 models. Altogether, the study variables accounted for 40% of the total variance and from Model 1 to Model 4 the explained variance increased from 6 to 40%. Model 1 contains family affluence, representing socio-economic status with a rather low explained variance of 6%. The standardized β coefficient for family income decreased in subsequent models, which may, along with the variables added, be mediators in a causal chain. Similarly, the explained variance increased both after adding personality dimensions and after the additional inclusion of depression/anxiety and social dysfunction. Adding social support (Model 4) hardly affected other betas and explained the variance.

### Results

Tables 1 and 2 show the descriptive statistics (mean, standard deviation and range of sum score) and correlation matrix for the variables.

In the next step the regression analyses of the associations of the study variables with global self-esteem and the crude effect of all the variables was performed. All of the variables are associated significantly with global self-esteem, but separately they explain just a small part of the total variance. Higher family affluence, a higher level of extroversion, agreeableness, conscientiousness, emotional stability and openness to experience as well as a higher amount of perceived support from family, friends and significant others are all associated with higher global self-esteem. On the contrary, higher levels of depression/anxiety and social dysfunction are associated with lower global self-esteem. Among the study variables, both GHQ-12 subscales have the highest standardized β coefficients and the highest explained variance. Other variables, with the small exceptions of emotional stability and perceived support from family subscales, stay at the approximately same level of explained variance.

Table 1 Descriptive statistic of the study variables

<table>
<thead>
<tr>
<th></th>
<th>Mean (SD)</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-esteem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Global self-esteem</td>
<td>28.07 (4.45)</td>
<td>10–40</td>
</tr>
<tr>
<td>Family affluence</td>
<td>3.91 (1.66)</td>
<td>0–7</td>
</tr>
<tr>
<td>TIPI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extroversion</td>
<td>9.34 (2.85)</td>
<td>2–14</td>
</tr>
<tr>
<td>Agreeableness</td>
<td>9.21 (2.42)</td>
<td>2–14</td>
</tr>
<tr>
<td>Conscientiousness</td>
<td>9.49 (2.51)</td>
<td>2–14</td>
</tr>
<tr>
<td>Emotional stability</td>
<td>8.77 (2.68)</td>
<td>2–14</td>
</tr>
<tr>
<td>Openness to experience</td>
<td>9.83 (2.62)</td>
<td>2–14</td>
</tr>
<tr>
<td>GHQ-12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depression/anxiety</td>
<td>11.80 (4.30)</td>
<td>6–24</td>
</tr>
<tr>
<td>Social dysfunction</td>
<td>11.72 (2.61)</td>
<td>6–24</td>
</tr>
<tr>
<td>PSSS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Support from family</td>
<td>21.70 (5.48)</td>
<td>4–28</td>
</tr>
<tr>
<td>Support from friends</td>
<td>21.65 (5.44)</td>
<td>4–28</td>
</tr>
<tr>
<td>Support from others</td>
<td>22.07 (5.29)</td>
<td>4–28</td>
</tr>
</tbody>
</table>

Table 2 Correlation matrix of the study variables

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Global self-esteem</td>
<td>1</td>
<td>0.16**</td>
<td>0.18**</td>
<td>0.11**</td>
<td>0.07**</td>
<td>0.28**</td>
<td>0.11**</td>
<td>0.19**</td>
<td>0.39**</td>
<td>0.24**</td>
<td>0.15**</td>
<td>0.08**</td>
</tr>
<tr>
<td>2 Family affluence</td>
<td>1.00</td>
<td>0.16**</td>
<td>0.18**</td>
<td>0.11**</td>
<td>0.07**</td>
<td>0.28**</td>
<td>0.11**</td>
<td>0.19**</td>
<td>0.39**</td>
<td>0.24**</td>
<td>0.15**</td>
<td>0.08**</td>
</tr>
<tr>
<td>3 TIPI extroversion</td>
<td>0.18**</td>
<td>1</td>
<td>0.22**</td>
<td>0.13**</td>
<td>0.13**</td>
<td>0.27**</td>
<td>0.18**</td>
<td>0.31**</td>
<td>0.15**</td>
<td>0.12**</td>
<td>0.11**</td>
<td>0.07**</td>
</tr>
<tr>
<td>4 TIPI agreeableness</td>
<td>0.11**</td>
<td>–0.00</td>
<td>1</td>
<td>0.06**</td>
<td>0.13**</td>
<td>0.04**</td>
<td>1</td>
<td>0.17**</td>
<td>0.12**</td>
<td>0.10**</td>
<td>0.13**</td>
<td>0.12**</td>
</tr>
<tr>
<td>5 TIPI conscientiousness</td>
<td>0.07**</td>
<td>–0.01</td>
<td>0.06**</td>
<td>1</td>
<td>0.13**</td>
<td>0.04**</td>
<td>1</td>
<td>0.17**</td>
<td>0.12**</td>
<td>0.10**</td>
<td>0.13**</td>
<td>0.12**</td>
</tr>
<tr>
<td>6 TIPI emotional stability</td>
<td>0.28**</td>
<td>0.00**</td>
<td>0.12**</td>
<td>0.27**</td>
<td>1</td>
<td>0.17**</td>
<td>0.12**</td>
<td>1</td>
<td>0.17**</td>
<td>0.12**</td>
<td>0.10**</td>
<td>0.13**</td>
</tr>
<tr>
<td>7 TIPI openness to experience</td>
<td>0.18**</td>
<td>0.14**</td>
<td>0.31**</td>
<td>0.15**</td>
<td>0.17**</td>
<td>1</td>
<td>0.17**</td>
<td>0.12**</td>
<td>0.10**</td>
<td>0.13**</td>
<td>0.12**</td>
<td>0.12**</td>
</tr>
<tr>
<td>8 GHQ depression anxiety</td>
<td>–0.55**</td>
<td>–0.07**</td>
<td>–0.06**</td>
<td>–0.08**</td>
<td>–0.00</td>
<td>–0.29**</td>
<td>–0.02</td>
<td>1</td>
<td>0.17**</td>
<td>0.12**</td>
<td>0.10**</td>
<td>0.13**</td>
</tr>
<tr>
<td>9 GHQ social dysfunction</td>
<td>–0.39**</td>
<td>–0.09**</td>
<td>–0.08**</td>
<td>–0.09**</td>
<td>–0.04**</td>
<td>–0.19**</td>
<td>–0.09**</td>
<td>0.53**</td>
<td>1</td>
<td>0.17**</td>
<td>0.12**</td>
<td>0.10**</td>
</tr>
<tr>
<td>10 PSSS support from family</td>
<td>0.26**</td>
<td>0.05**</td>
<td>0.13**</td>
<td>0.11**</td>
<td>0.10**</td>
<td>0.13**</td>
<td>0.12**</td>
<td>–0.19**</td>
<td>–0.18**</td>
<td>1</td>
<td>0.17**</td>
<td>0.12**</td>
</tr>
<tr>
<td>11 PSSS support from friends</td>
<td>0.13**</td>
<td>0.04**</td>
<td>0.22**</td>
<td>0.11**</td>
<td>0.07**</td>
<td>0.09**</td>
<td>0.20**</td>
<td>–0.04**</td>
<td>–0.10**</td>
<td>0.59**</td>
<td>1</td>
<td>0.17**</td>
</tr>
<tr>
<td>12 PSSS support from others</td>
<td>0.15**</td>
<td>0.05**</td>
<td>0.21**</td>
<td>0.12**</td>
<td>0.09**</td>
<td>0.07**</td>
<td>0.22**</td>
<td>–0.02</td>
<td>–0.09**</td>
<td>0.67**</td>
<td>0.78**</td>
<td>1</td>
</tr>
</tbody>
</table>

*Correlation is significant at the 0.05 level (two-tailed)

**Correlation is significant at the 0.01 level (two-tailed)
Table 3 Associations of SES, personality dimensions, mental health and perceived social support with global self-esteem: standardized beta coefficients from hierarchical linear regression

<table>
<thead>
<tr>
<th></th>
<th>Model 1</th>
<th>Model 2</th>
<th>Model 3</th>
<th>Model 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td>−0.19***</td>
<td>−0.22***</td>
<td>−0.10***</td>
<td>−0.12***</td>
</tr>
<tr>
<td>Family affluence</td>
<td>0.14***</td>
<td>0.09***</td>
<td>0.07***</td>
<td>0.07***</td>
</tr>
<tr>
<td>TIPI extraversion</td>
<td>0.15***</td>
<td>0.11***</td>
<td>0.10***</td>
<td></td>
</tr>
<tr>
<td>TIPI agreeableness</td>
<td>0.05**</td>
<td>0.03</td>
<td>0.02</td>
<td></td>
</tr>
<tr>
<td>TIPI conscientiousness</td>
<td>0.05**</td>
<td>0.05**</td>
<td>0.04**</td>
<td></td>
</tr>
<tr>
<td>TIPI emotional stability</td>
<td>0.22***</td>
<td>0.09***</td>
<td>0.09***</td>
<td></td>
</tr>
<tr>
<td>TIPI openness to experience</td>
<td>0.10***</td>
<td>0.10***</td>
<td>0.08***</td>
<td></td>
</tr>
<tr>
<td>GHQ-12 depression/anxiety</td>
<td>−0.44***</td>
<td>−0.43***</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GHQ-12 social dysfunction</td>
<td>−0.09***</td>
<td>−0.07***</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSSS support from family</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSSS support from friends</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSSS support from others</td>
<td>0.07</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R-square</td>
<td>0.06***</td>
<td>0.18***</td>
<td>0.38***</td>
<td>0.40***</td>
</tr>
</tbody>
</table>

a: 1 = female
Model 1 = gender, family affluence
Model 2 = gender, family affluence, TIPI subscales
Model 3 = gender, family affluence, TIPI subscales, GHQ-12 subscales
Model 4 = gender, family affluence, TIPI subscales, GHQ-12 subscales, PSSS subscales

*P < 0.05, **P < 0.01, ***P < 0.001

We also explored in an additional analysis whether the associations of personality and mental health with global self-esteem were moderated by socio-economic status, as measured by family affluence. No moderating effect of socio-economic status was found on the association between personality and self-esteem or mental health and self-esteem.

Discussion

Self-esteem is an influential factor in both physical and mental health. Our findings reveal that an association exists between low socio-economic status and lower self-esteem. This association changed after adjustment for personality and mental health, but not after additional adjustment for social support.

Family affluence as an indicator for socio-economic status remained significantly associated with self-esteem from the first to the final model, but its explanatory power decreased after adding personality dimensions and mental health variables (depression/anxiety and social dysfunction). At the same time, family affluence itself explained only 6% of the variance in self-esteem. This indicates the existence of other influential factors contributing to the association between socio-economic status and self-esteem and could be explained by the mediating role of the personality dimension of emotional stability and even more so by the mental health subscale of depression and anxiety. Also, previous studies on the mediating processes between socio-economic status, personality and self-esteem and socio-economic status, family processes and self-esteem indicate such a possibility.

Our findings imply that lower socio-economic status is an indicator of lower feelings of self-worth among adolescents, but at the same time such a connection is mediated by young people’s personality and mental health.

Depression and anxiety as mental health factors explained the greatest part of the total variance, and in the model this variable took its explanatory power from family affluence, as has been already mentioned. After adding in this factor, the explanatory power of the personality dimension emotional stability decreased rapidly as well. This may be due to the fact that both of them, emotional stability as well as depression and anxiety, are of a rather similar construct. Their connection has been revealed by previous studies. Neuroticism has been shown to be associated with depression or anxiety. Moreover, depression and anxiety are frequently associated with self-esteem. With social support, we moved from the internal to the external determinants of self-esteem. During adolescence, young people have to struggle with developing their self-identity. Family members are those who could primarily influence the perception of self-worth, providing positive feedback and appraisal of an adolescent’s behaviour, and consequently influence also relationships outside the family environment, which again shape the feelings of self-worth. As can be seen, social support did not remarkably change the relationship between socio-economic status and adolescent self-esteem.

Strengths and limitations

This study has several important strengths, the most important being its large nationally representative sample and its high response rates. It also has limitations. First, only subjective self-reports were used for measuring individual aspects. However, previous studies support the validity of such self-reports. A second limitation is the cross-sectional design of our study, which makes conclusive statements about causality in our findings impossible. They thus need to be confirmed in a longitudinal design. However, as is discussed in Mann et al. and Flay, Altred and Ordway, there is a lack of clarity regarding the direction of the causal relations between self-esteem and mental problems and disorders (e.g. depression, anxiety or social dysfunction measured in the present study). Finally, it needs to be mentioned that other aspects of self-esteem (e.g. implicit self-esteem, contingent self-esteem) were not measured.

Implications and conclusion

The contribution of personality and mental problems on the relation between socio-economic status and self-esteem may have important implications for the design of health-promotion programs aimed at the reduction of socio-economic differences in adverse health behaviour. Family affluence is clearly associated with adolescent self-esteem and has an impact on the way young people evaluate themselves. Adolescents of low socio-economic status seem to be a more vulnerable group in the comparison to their peers of higher socio-economic status and were identified as a target group for health-promotion programs. The review of Haney and Durlak about self-esteem interventions provides evidence for the effectiveness of these interventions. However, the authors indicate that such interventions, even though potentially effective, need a better theoretical foundation and should take into account possible differences between participants (e.g. age, ethnicity or type of their problems). Longitudinal studies are needed, however, to support the causal chain we have inferred from our cross-sectional study.

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Key points
- Socio-economic status has a clear impact on developing self-esteem especially during the important stage of adolescence. To be able to intervene effectively on self-esteem, evidence is needed on other factors that lead from socio-economic status to self-esteem during this developmental stage.
- Adolescents of low socio-economic status seem to be more vulnerable in comparison with their peers of higher socio-economic status and were identified as a target group for health-promotion programs.
- Our findings indicate a contribution of personality and mental problems to the relationship between socio-economic status and self-esteem, which may provide cues for the design of health promotion programs aimed at the reduction of socio-economic differences in adverse health behaviours of young adolescents.

References

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